

MAGNETIC RESONANCE IMAGING APPARATUS

ABSTRACT OF THE DISCLOSURE

For the purpose of enabling parallel imaging even when a navigator echo is
5 used to phase-correct an imaging echo, the present invention involves: exciting
spins within a subject to acquire an imaging echo generated by the excited spins
along with a navigator echo, with a reduced field-of-view via a plurality of
receiver systems (802); conducting phase correction on the imaging echo based
on the navigator echo (804); producing an intermediate image based on the
10 phase-corrected imaging echo from each of the plurality of receiver systems
(806); generating a sensitivity matrix for the plurality of receiver systems (808);
correcting the phase of matrix data in the sensitivity matrix (810); and producing
an image with a full field-of-view based on the intermediate image and the
phase-corrected sensitivity matrix (812).